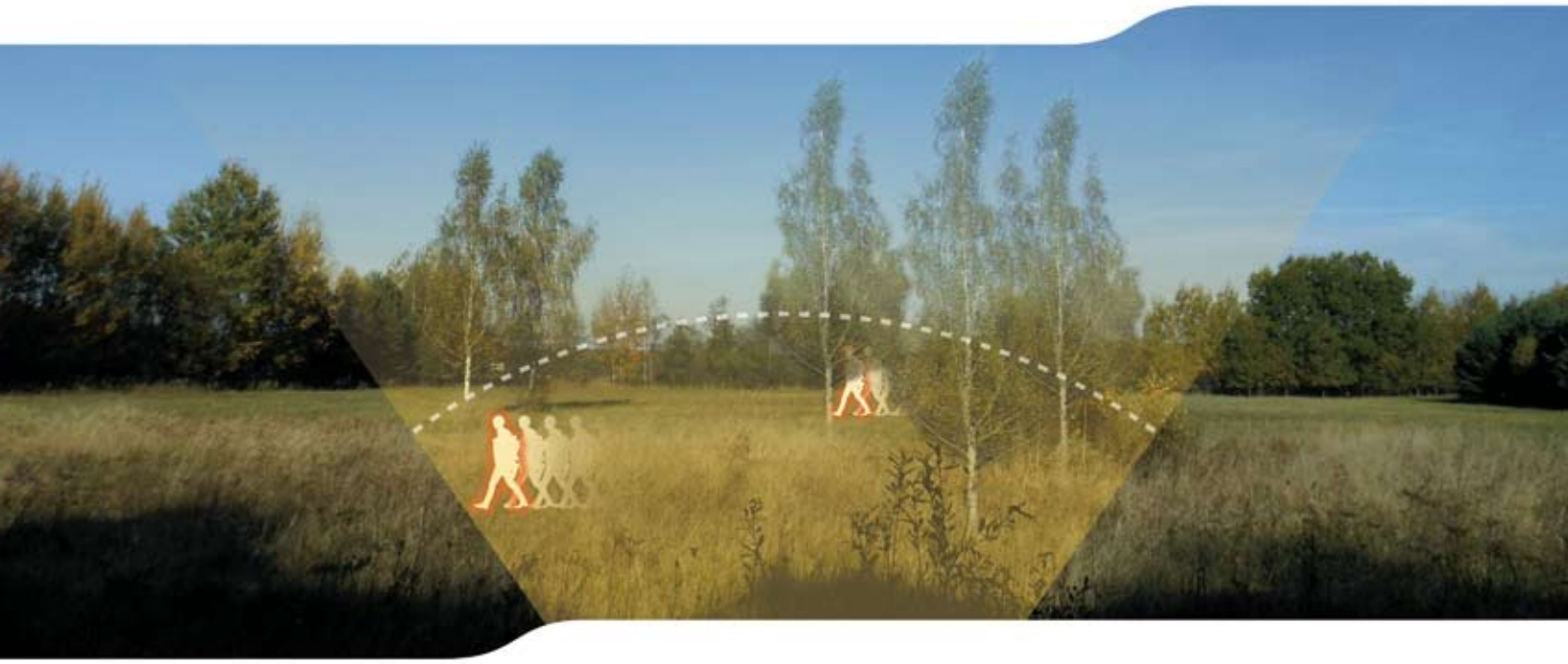
FPR-10

Foliage Penetration Radar



Overview

Elbit Systems EW&SIGINT - Elisra's new Foliage Penetration Radar - FPR-10 – is a Ground Surveillance Radar (GSR) providing long-range, accurate, high-resolution detection of vehicles and personnel that are located behind foliage. The FPR-10 is designed to withstand harsh environmental conditions as well as foliage interferences and disturbances.

Main Applications

- Borders, including tropical borders
- Critical infrastructures
- Airports and seaports
- Military bases

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Main Features

- Detection behind foliage
- Long-range detection
- Wide-area surveillance
- Low FAR (False Alarm Rate)
- Easy integration and operation
- No moving parts
- Cost-effective

Elisra's Foliage Penetration Radar, FPR-10, covers a wide range in azimuth and elevation, together with long-range detection, even in areas of dense foliage. High reliability is achieved by the radar's sophisticated design, which has no moving parts.
Large areas - including international borders, air and seaports - can be secured through the use of multiple units that together provide end-to-end, overlapping coverage.
A fully integrated, easy-to-operate solution can be customized, using Elisra's command and control system together with Elbit System's electro-optic capabilities, and including Elisra's Foliage Penetration Radar.

Specifications

Target types	Personnel, Vehicles
Target velocity	2 ~ 90 Km/Hr
Azimuth coverage	45 deg. per sector
Elevation coverage	20 deg.
Power consumption	150 W per sector 300 W central PC
Weight	50 Kg per sector
Communications	C^2 link over Ethernet from PC
False alarm rate (FAR)	low
Antenna type	Dipole panel, cell tower like

Environmental Conditions

Temperature	-20 ~ 50 deg. Celsius
Humidity	0-100% RH, non-condensing
Altitude	0 – 10 Kft AMSL
Wind	0 – 50 KN
Weather resistant (rain, snow, ice, dust, sand, salty spray)	Full compliance

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Elbit Systems EW and SIGINT – Elisra Ltd.
48 Mivtza Kadesh St., Bene-Beraq 5121701, Israel
www.elbitsystems.com/elisra